

KX TITANIUM DIOXIDE NO. 46504

MSDS Code: 790-752

Revision Date: 07/11/1997

Date Printed: 01/29/2001

NFPA Classification:**Health:** 1
Flammability: 0
Instability: 0
Special Hazards:**HMIS Classification:****Health:** 2*
Flammability: 0
Reactivity: 0**Personal Protection:**

* Indicates possible chronic health effects.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**Common Name:** Universal Dispersion Of C.I. Pigment White 6**Chemical Name:** Universal Dispersion Of C.I. Pigment White 6**Formula:** Chemical Mixture**Product Use:** Industrial pigment.**Supplier:** ENGELHARD CORPORATION
SPECIALTY PIGMENTS & ADDITIVES
101 WOOD AVENUE
ISELIN, NJ 08830-0770
1-732-205-6913 FOR CUSTOMER SERVICE
1-502-775-7288 FOR ENVIRONMENT, HEALTH, AND SAFETYFor Chemical Emergency Call CHEMTREC (24 hours):
1-800-424-9300 (US, Canada, Puerto Rico, Virgin Islands)
1-703-527-3887 (Outside Above Area)**2. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Ingredient</u>	<u>Weight In Product (%)</u>	<u>Notes</u>
CI Pigment White 6 13463-67-7	50-60	None.
Diethylene Glycol 111-48-6	10-20	None.
Hydrated Magnesium Silicate 14807-98-6	5-15	None.
Water 7732-18-5	5-15	None.
Calcium Carbonate 1317-65-3	5-15	None.

3. HAZARDS IDENTIFICATION

Emergency Overview:

Color: White
Form: Liquid
Odor: Odorless
Flash Point, °C: Not Determined

Most Important Hazards: May irritate eyes. MAY CAUSE EYE BURNS. Prolonged or repeated contact may cause skin absorption. Causes skin irritation. Chronic Overexposure Effects: Liver and kidney damage. Central nervous system damage. May cause skin irritation. Inhalation may result in respiratory irritation. Harmful by Inhalation and if swallowed.

Potential Health Effects:

Inhalation: Exposure to vapors or mists, generated at higher temperatures, may cause drowsiness and headache.

Ingestion: May cause tissue damage. May cause central nervous system effects. May cause liver and kidney damage. May be fatal if swallowed.

Skin Contact: Prolonged or repeated contact may cause skin irritation. May cause systemic toxicity through skin absorption.

Eye Contact: Causes eye irritation. May cause eye burns.

Other Effects: NOTE: Laboratory animal studies indicate that GLYCOL ETHERS may cause reproductive effects.
NOTE: Inhalation of vapor and/or mist may be significant if material is heated or agitated/sprayed.

Carcinogenicity:

<u>Ingredient</u>	<u>Weight In Product (%)</u>	<u>NTP (Y/N)</u>	<u>IARC (See Notes)</u>	<u>OSHA (Y/N)</u>	<u>ACGIH (See Notes)</u>
CI Pigment White 6 13463-87-7	50-60	N	N3	N	A4
Diethylene Glycol 111-46-6	10-20	N	N	N	N
Hydrated Magnesium Silicate 14807-98-6	5-15	N	N3	N	A4
Water 7732-18-5	5-15	N	N	N	N
Calcium Carbonate 1317-65-3	5-15	N	N	N	N

Notes:

IARC: Y1=Carcinogenic to humans; Y2A=Probably carcinogenic to humans; Y2B=Possibly carcinogenic to humans; N3=Not classifiable as to its carcinogenicity; N=Not studied or probably not carcinogenic.

ACGIH: A1=Confirmed human carcinogen; A2=Suspected human carcinogen; A3=Confirmed animal carcinogen; A4=Not classifiable as a human carcinogen; A5=Not suspected as a human carcinogen; N=Not studied.

Chronic Health Hazards: May cause liver and kidney damage. May cause formation of bladder stones. May cause bladder cancer.

Aggravated Medical Conditions: Kidney disorders. Liver disorders. Neurological ailments.

4. FIRST AID MEASURES

Inhalation: Move person to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

Ingestion: Get medical attention! If vomiting occurs, keep head lower than hips to prevent aspiration.

Skin Contact: Flush skin with large amounts of water. If irritation persists, get medical attention.

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

5. FIRE FIGHTING MEASURES

Flash Point, °C: Not Determined
Autoignition Temperature, °C: Not Determined
Lower Explosive Limit, %: Not Determined
Upper Explosive Limit, %: Not Determined

Extinguishing Media: Water. Carbon dioxide. Foam.

Fire Fighting Procedures: Positive pressure, self-contained breathing apparatus. Wear full protective clothing.

Unusual Fire and Explosion Hazards: Not a fire or explosion hazard.

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures: Contain spillage. Soak up spill using an absorbent. Scoop into a suitable container.

7. HANDLING AND STORAGE

Wash thoroughly after handling.
Keep away from food and feed products.
Keep container closed.
Keep from freezing.
Avoid breathing mist.
Avoid contact with eyes, skin and clothing.
Use with adequate ventilation.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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<u>Ingredient</u>	<u>Weight In Product (%)</u>	<u>OSHA PEL:</u>	<u>ACGIH TLV:</u>
CI Pigment White 6 13483-67-7	50-60	10 mg/m3 (Total dust) 5 mg/m3 (Respirable dust)	10 mg/m3 (Total dust)
Diethylene Glycol 111-46-6	10-20	None Established	None Established
Hydrated Magnesium Silicate 14807-98-6	5-15	2 mg/m3 (Containing no asbestos fibers, respirable dust)	2 mg/m3 (Containing no asbestos fibers, respirable dust)
Water 7732-18-5	5-15	None Established	None Established
Calcium Carbonate 1317-65-3	5-15	15 mg/m3 (Total dust) 5 mg/m3 (Respirable dust)	10 mg/m3

Unless otherwise noted, all values are reported as 8-hour Time-Weighted Averages (TWAs) and total dust (particulates only). All ACGIH TLVs refer to the 2000 standards. Unless otherwise noted, all OSHA PELs refer to 29 CFR Part 1910 Air Contaminants: Final Rule, January 19, 1989.

Personal Protective Equipment: Chemical goggles; also wear a face shield if splashing hazard exists. Rubber or neoprene gloves.

Respiratory Protection: Use approved respiratory protection if exposure limits are exceeded, or overexposure is likely.

Ventilation: General ventilation. Local exhaust ventilation as necessary to control dust, mist, vapor or fumes.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid
Color: White
Odor: Odorless

Vapor Pressure: Max: 17.5mm Hg at 20 °C
Specific Gravity: Min: 1
Evaporation Rate: Much < 1
Solubility (in water): Dispersible
pH: Min: 8 Max: 10

10. STABILITY AND REACTIVITY

Stability Data: Stable

Conditions/Hazards to Avoid: None anticipated

Incompatibility (Materials to Avoid): None anticipated.

Hazardous Decomposition Products: None anticipated

Polymerization: None anticipated.

Polymerization - Avoid: None anticipated.

11. TOXICOLOGICAL INFORMATION

Information on Product:

Information on Components:

<u>Ingredient</u>	<u>Weight In Product (%)</u>	<u>Acute Toxicity - Oral</u>	<u>Acute Toxicity - Inhalation</u>	<u>Acute Toxicity - Dermal</u>	<u>Acute Toxicity - Other</u>
CI Pigment White 6 13483-67-7	50-60	> 5000 mg/kg (rat)	Not Available	Not Available	Not Available
Diethylene Glycol 111-46-6	10-20	21,000 mg (rat)	Not Available	Not Available	Not Available
Hydrated Magnesium Silicate 14807-96-5	5-15	Not Available	Not Available	Not Available	Not Available
Water 7732-18-5	5-15	Not Available	Not Available	Not Available	Not Available
Calcium Carbonate 1317-65-3	5-15	8450 mg/kg (rat)	Not Available	Not Available	Not Available

12. ECOLOGICAL INFORMATION

Information on Product:

Environmental Fate: No data available.

Ecotoxicological Information: No data available.

13. DISPOSAL CONSIDERATIONS

US EPA Waste Number: Not Regulated

Disposal of Waste Method: This product, if disposed as received, is a non-hazardous waste. Local disposal laws and regulations will determine the proper waste disposal/recycling/reclamation procedure. Disposal requirements are dependent on the hazard classification and will vary by location and the type of disposal selected.

14. TRANSPORT INFORMATION

International Transport Regulations:

UN/PIN Number: Not Regulated

US Transportation Regulations:

DOT Classification: Not Regulated

Canadian Transportation of Dangerous Goods (TDG):

TDG Classification: Not Regulated

15. REGULATORY INFORMATION

International Inventories:

United States: This product or its ingredients are listed on or compliant with the TSCA Inventory.
Canada: This product or one or more of its ingredients are listed on the NDSL.
Europe: Not Determined
Japan: Not Determined
Australia: Not Determined
Korea: Not Determined

US Federal Regulations:

<u>Ingredient</u>	<u>Weight in Product (%)</u>	<u>Subject to SARA 313 Reporting</u>
CI Pigment White 6 13463-67-7	50-60	No
Diethylene Glycol 111-46-6	10-20	No
Hydrated Magnesium Silicate 14807-96-6	5-15	No
Water 7732-18-5	5-15	No
Calcium Carbonate 1317-65-3	5-15	No

SARA 311/ 312 Hazard Categories:

Acute Health Hazard Chronic Health Hazard

CAA 602 Ozone Depleting Substances (ODS):

This product neither contains nor is manufactured with an ozone depleting substance subject to the labeling requirements of the Clean Air Act Amendments 1990 and 40 CFR Part 82.

VOC Content: 300 g/L

US State Regulations:

VOC Content (CARB): 374

Canadian Regulations:

WHMIS Classification:
Not Determined

16. OTHER INFORMATION

Revision number: 4

Prepared By: Engelhard Corporate Environmental Health & Safety Group

The information in this Material Safety Data Sheet should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product. This information has been prepared for the guidance of plant engineering, operations, management and for persons working with or handling this product. The information presented in the MSDS is premised upon proper handling and anticipated uses, and is for the material without chemical additions/alterations. We believe this information to be reliable and up-to-date as of the date of publication, but make no warranty that it is. Additionally, if this Material Safety Data Sheet is more than three years old, please contact the supplier at the phone number listed in Section 1 to make certain that this sheet is current. Copyright Engelhard Corporation. License granted to make unlimited copies for internal use only. End of MSDS.....